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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/067,840	02/08/2002	Shigeo Muramatsu	219282US3	9559
22850	7590	06/02/2004	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314				TUGBANG, ANTHONY D
ART UNIT		PAPER NUMBER		
3729				

DATE MAILED: 06/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/067,840	MURAMATSU ET AL.
	Examiner A. Dexter Tugbang	Art Unit 3729

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-6 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2/8/02.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Singh et al 6,011,239 in view of Japanese Patent Publication JP 8-255449, referred to hereinafter as JP'449.

Regarding Claim(s) 1 and 4, Singh et al discloses a method of fabricating a magnetic head apparatus comprising: affixing a wiring on a face of a head supporting member (suspension assembly 10) before bending a load beam 14; bending the load beam to a certain angle (see col. 3, lines 23-27); and mounting a magnetic head (slider 18) to an end portion of the head supporting member 10.

Regarding Claim(s) 2, 3, 5 and 6, Singh further teaches that, after the initial bending of the load beam, carrying out a springback preventive treatment by using multiple temperature annealing treatments, i.e. low and high, with an apparatus (shown in Fig. 6) to locally heat and cool particular areas 122, 114, 118, 119 of the head supporting member through the use of a laser. The heating of the laser and the cooling of the material of the head supporting member causes the head supporting member to bend (see col. 6, line 40 to col. 7, line 10) and this bending can be read as “springback”.

It is noted that Singh further suggests that the wiring is affixed to the face of the head supporting member prior to the use of the laser apparatus or prior to the multiple heating or low

and high temperature annealing treatments. The use of the laser to locally heat the head supporting member prevents damage to the wiring and magnetic head (see col. 2, lines 23-27) in which this damage prevention can be read as not influencing the function of the wiring.

In summary above, Singh teaches substantially all of the limitations of the claimed method except that Singh does not say whether or not the wiring is “flexible” such that it can be called a “flexible wiring”.

JP’449 teaches that flexible wiring 44 (in Fig. 2 and 4) affixed to head supporting members is conventional, old and notorious well known in the manufacturing arts of magnetic heads. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the wiring of Singh by having the wiring “flexible”, as taught by JP’449, for at least the advantages of allowing the wiring to flex or bend with head supporting member and provide electrical current to the magnetic head during operation.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

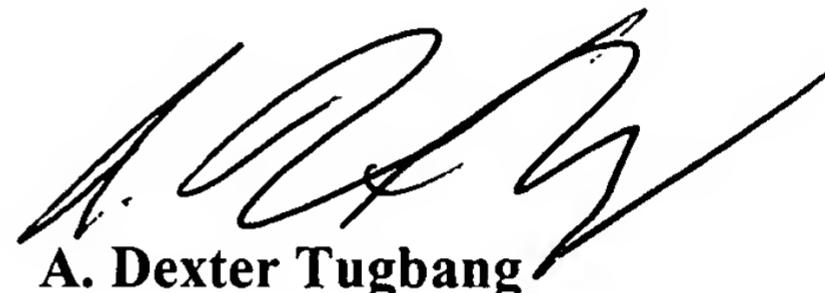
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Dexter Tugbang whose telephone number is 703-308-7599.

The examiner can normally be reached on Monday - Friday 7:00 am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 703-308-1789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3729

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



A. Dexter Tugbang
Primary Examiner
Art Unit 3729

May 28, 2004